CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/VR/W.No.05/CSR.9/617g/CUBE/2014-15 13.10.2014

TEST REPORT ON CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. V. Ramesh**, Contractor, Bangalore.
* Name of the work	: Providing RCC Drain and Covering Slabs at Chokkanahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BSD/BBMP/ /2014-15 Dated: 03.09.2014
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 12.10.2014

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.09.2014	13.10.2014	8.167	493.8	21.95
2	15.09.2014	13.10.2014	8.293	506.5	22.51
3	15.09.2014	13.10.2014	8.352	518.7	23.05

*Information is furnished by the Customer/Representative.

Note:

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Assistant Executive Engineer
Byatarayanapura Sub Divisio
B.B.M.P. Bangalore

VISHWANATH. I.A.
Chief Executive Officer

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/VR/W.No.05/STEEL/2014-15

05.09.2014

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. V. Ramesh,** Contractor, Bangalore.
Name of the work	:	Providing RCC Drain and Covering Slabs at Chokkanahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BSD/BBMP/ /2014-15 Dated: 03.09.2014
Date of Test	:	05.09.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	515	558	13.45	O.K	O.K

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/VR/W.No.05/WMM/Gradation/2014-15

29.09.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. V. Ramesh,** Contractor, Bangalore.

Name of Work : Providing RCC Drain and Covering Slabs at Chokkanahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : AEE/BSD/BBMP/ /2014-15 Dated: 03.09.2014

Date of Testing : 29.09.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **25400**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	1020	1020	4.0	96.0	95-100
22.4	6355	7375	29.0	71.0	60-80
11.2	5485	12860	50.6	49.4	40-60
4.75	4570	17430	68.6	31.4	25-40
2.36	3215	20645	81.3	18.7	15-30
0.600	2280	22925	90.3	9.7	8-22
0.075	2210	25135	99.0	1.0	0-8

Civil-Tech Consultants & Engineers Bangalore

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Job No.: CTCE/BBMP/VR/W.No.05/SDBC/Bitumen/2013-14 10.10.2014

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AASHTO T 164 & AASHTO T 30

CUSTOMER	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP,
AGENCY	**Mr. V. Ramesh,** Contractor, Bangalore.
NAME OF THE WORK	Providing RCC Drain and Covering Slabs at Chokkanahalli in Ward No.05, Byatarayanapura Sub Division, BBMP, Bangalore.
REFERENCE	AEE/BSD/BBMP/ /2014-15 Dated: 03.09.2014
SAMPLE I/D	RCC Drain and Covering Slabs at Chokkanahalli in Ward No.05
DATE OF TESTING	10.10.2014

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	475
3. Weight of Asphalt and Mineral matter Extracted,	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	25.00
7. Bitumen content in %	5.20	5.00
8. Average	**5.10**	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	22.32	4.71	4.71	95.29	90-100
4.75	240.6	50.76	55.47	44.53	35-51
2.36	57.48	12.13	67.59	32.41	24-39
1.18	62.35	13.15	80.75	19.25	15-30
0.3	37.49	7.91	88.66	11.34	9-19
0.075	28.15	5.94	94.60	5.40	3-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	26.95	5.39	5.39	94.61	90-100
4.75	242.6	48.52	53.91	46.09	35-51
2.36	85.87	17.17	71.08	28.92	24-39
1.18	56.13	11.23	82.31	17.69	15-30
0.3	36.87	7.37	89.68	10.32	9-19
0.075	27.12	5.42	95.11	4.89	3-8

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